

ABSTRACT

To provide a capacity control valve for a variable displacement compressor, which is capable of returning lubricating oil contained in refrigerant into a crank chamber efficiently by a simple construction.

A valve element is disposed in a refrigerant passage communicating between a discharge chamber and a crank chamber in a variable displacement compressor, such that the valve element can be seated from a crank chamber side, and opens and closes the refrigerant passage. A valve seat-forming member is so formed as to contain a valve seat and a valve hole on which the valve element is seated, and a through hole as a communication passage communicating between a discharge chamber side and the crank chamber side. When a solenoid section is energized, and the valve element is urged by a piston rod to close the valve, refrigerant from the discharge chamber side flows into the crank chamber side through the through hole. Thus, even when the valve element is seated, lubricating oil can be circulated within the variable displacement compressor.